

## **Abstract**

[270] A system and method for manipulating software is provided. The system analyzes a body of source code and derives a set of components from the software architecture inherent in the body of source code. The system further determines the internal and external functional and data dependencies of each component and the control flow of the software and creates an information model that represents the components, their dependencies, and the control flow of the program. Additionally, the system provides a graphical interface that presents the information model and allows the macro and micro structure of the model to be viewed and modified. Furthermore, components can be combined and separated to refine the software architecture represented by the information model and documentation and new source code can be provided for inclusion in the information model.